

WHAT IS CLAIMED IS:

1. An optical pickup apparatus comprising:
  - an object lens arranged to be opposed to an optical disk;
  - 5 a bobbin configured to support the object lens;
  - an elastic member configured to support the bobbin in a suspending manner;
  - a fixing section attached to one end of the elastic member; and
- 10 a pair of coil disposed on the bobbin,
  - wherein each of the coil is disposed at 180 degrees symmetric position with respect to a centroid of a placement face of the object lens in the bobbin, and
  - wherein each of the coil is disposed in a different plane.
2. The optical pickup apparatus as claimed in claim 1, wherein the elastic member comprises four or more longitudinal elastic members.
3. The optical pickup apparatus as claimed in claim 1,
  - 20 wherein the pair of coil comprises a plurality of pairs of coil.
4. The optical pickup apparatus as claimed in claim 1, wherein electric power such that the temperature and the heat flow rate at the point at which the line connecting
  - 25 an optical axis of the object lens and a center of one of

the coils crosses the outer margin of the object lens become equal to those at the point at which the line connecting the optical axis of the object lens and the center of another coil crosses the outer margin of the object lens, is  
5 provided to each of the coils.

5. The optical pickup apparatus as claimed in claim 1, wherein a symmetrical axis of the pair of coil matches an optical axis of the object lens.

6. The optical pickup apparatus as claimed in claim 1,  
10 wherein each of the coils of the pair are spaced from each other at the same distance with respect to an optical axis of the object lens.

7. The optical pickup apparatus as claimed in claim 1,  
wherein the pair of coil comprises either a pair of focus  
15 coil or a pair of tracking coil.

8. The optical pickup apparatus as claimed in claim 1,  
wherein each of the coils of the pair are connected in  
series.

9. The optical pickup apparatus as claimed in claim 3,  
20 wherein the bobbin comprises four or more even numbers of  
side surfaces,

wherein the plurality of pairs of coil comprises  
either a pair of focus coil or a pair of tracking coil,  
and

25 wherein the plurality of pairs of coil are arranged

in a manner that each of the focus coil and the tracking coil are disposed alternately on each of the side surfaces.

10. The optical pickup apparatus as claimed in claim 9, wherein a first drive current is provided to either of the 5 focus coils and the tracking coils, and a second drive current is provided to the other of the focus coils and the tracking coils, and

wherein during the first drive current is provided, a predetermined current is added to the second drive 10 current.

11. An optical pickup apparatus comprising:

an object lens arranged to be opposed to an optical disk;

a bobbin configured to support the object lens;

15 a first coil and a second coil disposed on a first side surface of the bobbin; and

a third coil and a fourth coil disposed on a second side surface, which being opposed to the first side surface, of the bobbin,

20 wherein the first coil and the third coil are disposed at a position being symmetric with respect to an optical axis of the object lens and are electrically connected to each other, and

wherein the second coil and the fourth coil are 25 disposed at a position being symmetric with respect to an

optical axis of the object lens and are electrically connected to each other.

12. The optical pickup apparatus as claimed in claim 11, wherein the first coil and the third coil each comprises 5 either of a focus coil or a tracking coil, and

wherein the second coil and the fourth coil each comprises the other of the focus coil or the tracking coil.

13. The optical pickup apparatus as claimed in claim 12, wherein a first drive current is provided to either of the 10 focus coils and the tracking coils, and a second drive current is provided to the other of the focus coils and the tracking coils, and

wherein during the first drive current is provided, a predetermined current is added to the second drive 15 current.

14. The optical pickup apparatus as claimed in claim 11, further comprising:

an elastic member configured to support the bobbin in a suspending manner; and

20 a fixing section attached to one end of the elastic member.